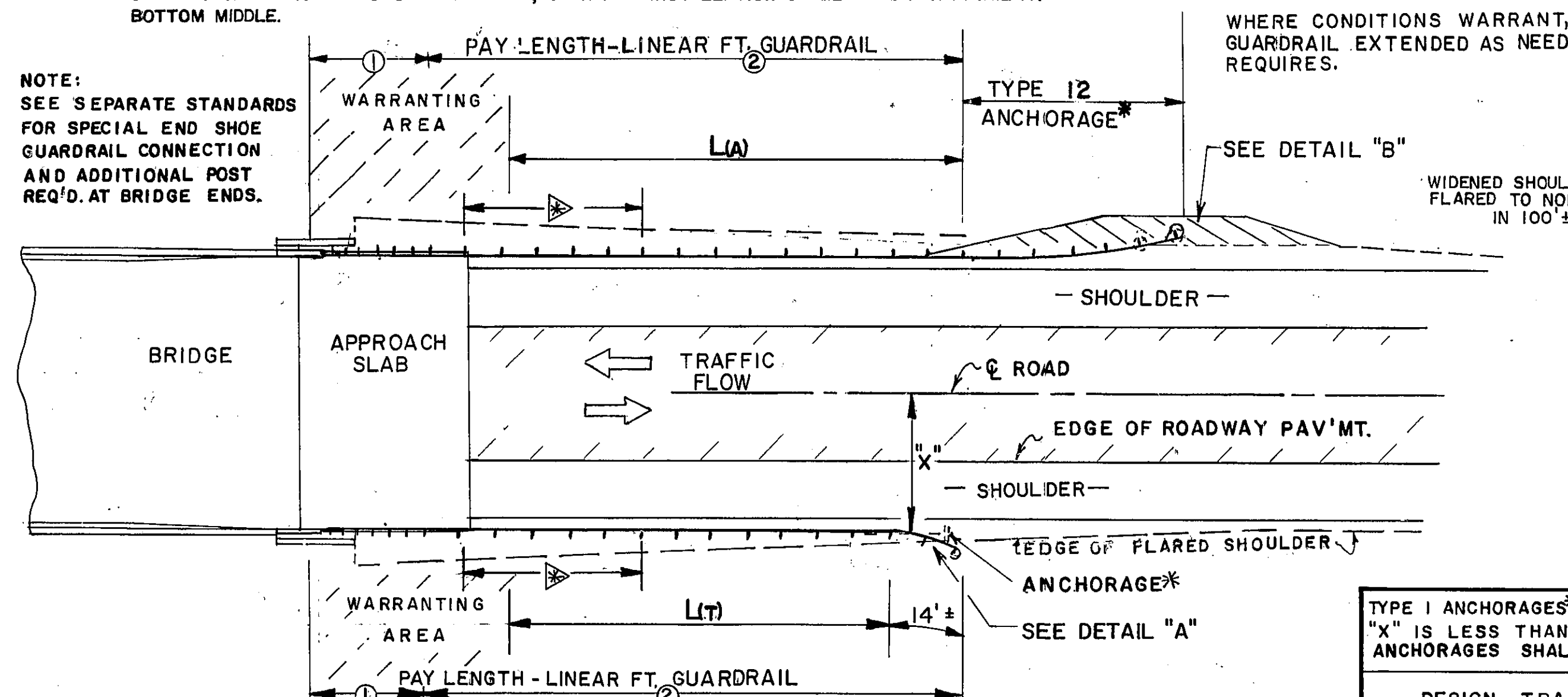


NOTE:
FOR MINIMAL REDUCTION (TO 2') OF SHOULDER ACROSS BRIDGE, ALIGNMENT SHALL BE STRAIGHT FOR SHORT INSTALLATIONS (LESS THAN 200' TOTAL) AS SHOWN HEREON. FOR LONGER INSTALLATIONS, OR GREATER REDUCTION OF SHOULDER WIDTH, GUARDRAIL INSTALLATION SHALL BE AS PER DETAIL AT BOTTOM MIDDLE.

NOTE:
SEE SEPARATE STANDARDS FOR SPECIAL END SHOE GUARDRAIL CONNECTION AND ADDITIONAL POST REQ'D. AT BRIDGE ENDS.

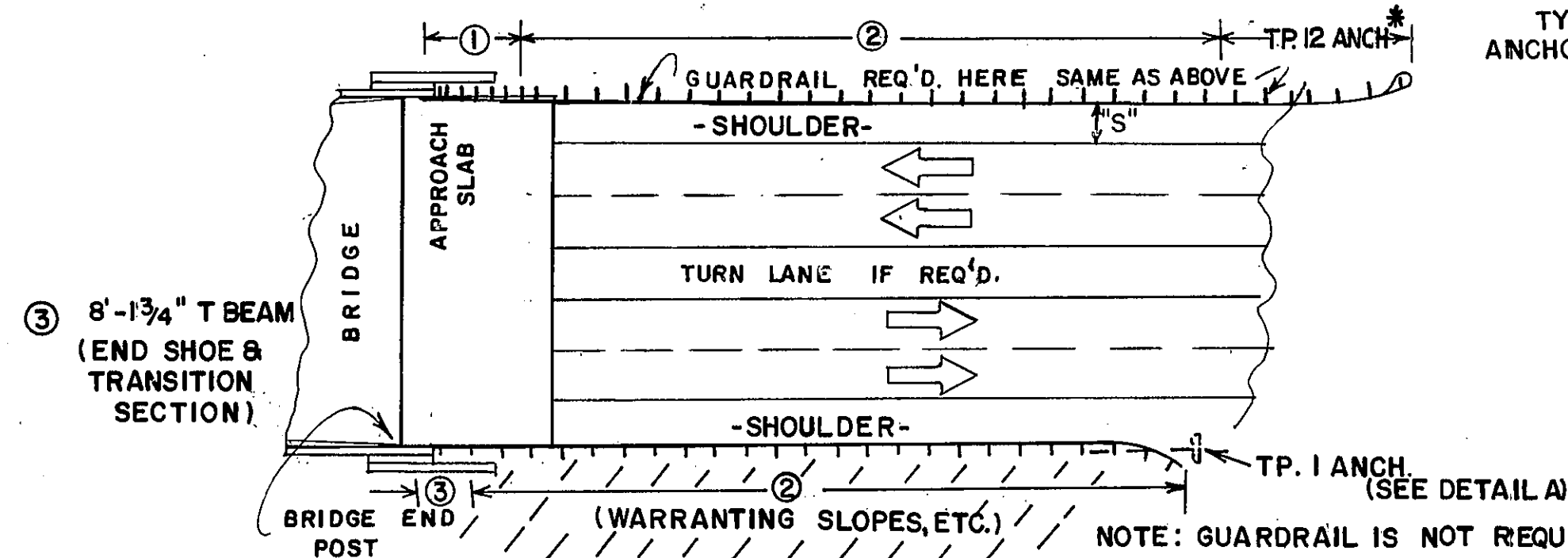


TRAFFIC VOLUME	MIN. L(T)	MIN. L(A)
DHV OVER 400	100'-0"	137'-6"
DHV 200 - 400	87'-6"	125'-0"
DHV 100 - 200	75'-0"	112'-6"
ADT 400 & OVER	62'-6"	100'-0"
AQT UNDER 400	50'-0"	87'-6"

① 20'-7 3/4" OF T BEAM (STD. 4012-C)
② VARIABLE LENGTH OF W BEAM (6'-3" POST SPA.)

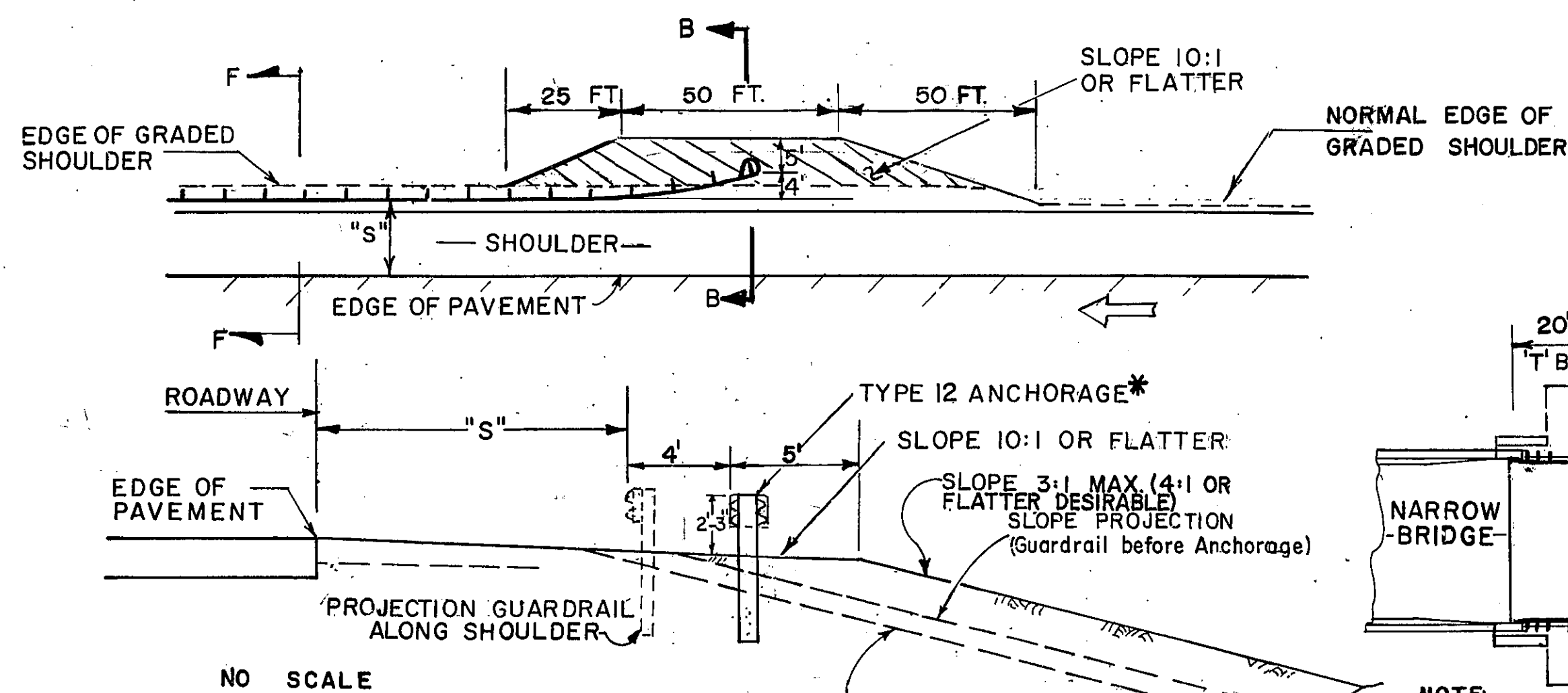
GUARDRAIL LOCATION AT BRIDGE ENDS

NOTE: THESE MINIMUM LENGTHS ARE FOR STRAIGHT ALIGNMENTS IN ADVANCE OF WARRANTING AREA.



GUARDRAIL AT BRIDGE END OF MULTI-LANE UNDIVIDED HIGHWAY

NO SCALE



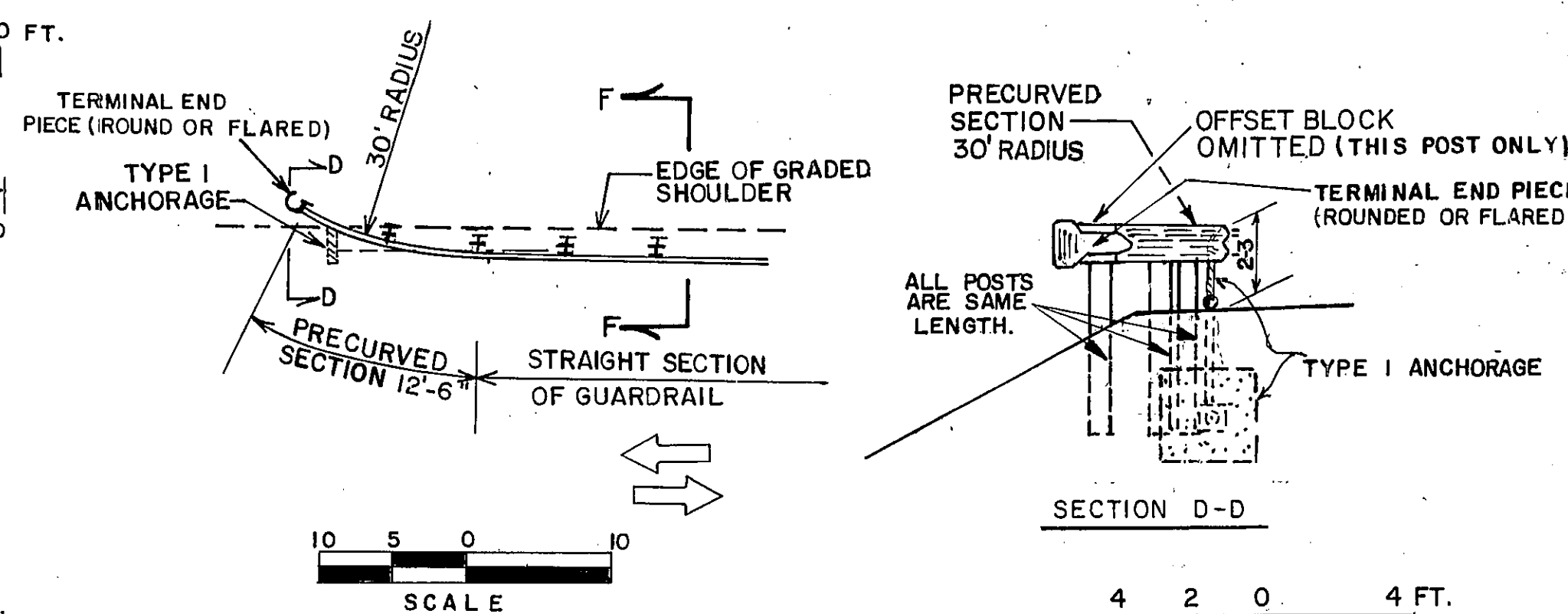
DETAIL "B"

WHERE SHOWN ON THE PLANS OR APPROVED BY THE ENGINEER, THE EMBANKMENT FLARE SHOWN ABOVE FOR TYPE 1 ANCHORAGE MAY BE MODIFIED, PROVIDED 10:1 OR FLATTER SLOPES ARE PROVIDED IN FRONT OF THE RAIL & A CONSTANT 27 INCH RAIL HEIGHT IS MAINTAINED.

GUARDRAIL LOCATION AT END OF NARROW BRIDGE

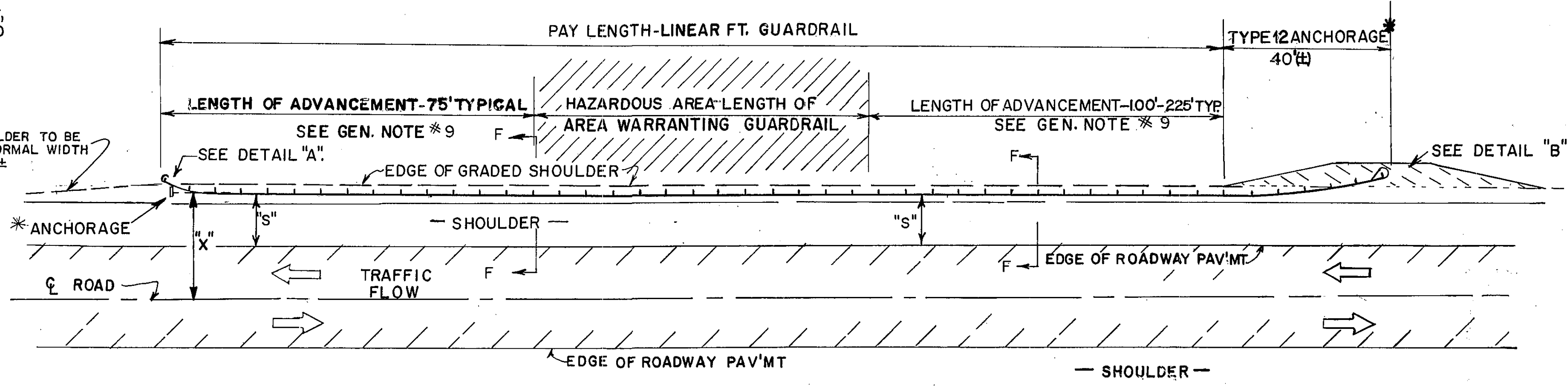
(NOTE: DETAILS NOT SHOWN HERE ARE SIMILAR TO THOSE AT TOP LEFT.)

DESIGN TRAFFIC VOLUME	DESIGN SPEEDS (AS SHOWN ON COVER SHEET)			
	40 MPH	50 MPH	55 MPH	60 MPH
OVER 6000 A. D. T.	14'	18'	22'	30'
1500-6000 A. D. T.	12'	16'	20'	26'
750-1500 A. D. T.	10'	12'	16'	20'
UNDER 750 A. D. T.	7'	10'	12'	16'

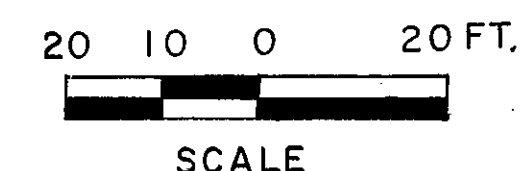


DETAIL "A"

NOTE: DETAIL "A" IS FOR USE ONLY WHERE TYPE 1 ANCHORAGES ARE PERMITTED AS SHOWN ABOVE. OTHERWISE, SEE DETAIL "B" FOR PROPER INSTALLATION OF TYPE 12 ANCHORAGE.



GUARDRAIL LOCATION ALONG ROADWAY



NOTE: GUARDRAIL TO BE LOCATED ON BOTH SIDES OF ROAD IF CONDITIONS WARRANT.

GENERAL NOTES:

- GUARDRAIL, ITS FITTINGS, PARTS, ETC. ARE TO BE IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
- FOR DETAILS OF BEAM TYPE GUARDRAIL, ACCESSORIES, GUARDRAIL POSTS OFFSET BLOCKS, GUARDRAIL ANCHORAGES, TYPE 1, AND TYPE 12, & BRIDGE END CONNECTION DETAILS, SEE APPLICABLE GEORGIA STANDARD PLANS AND/OR CONSTRUCTION DETAILS.
- ALL OFFSET AND LENGTHS HERE SHOWN ARE APPLIED TO FACE OF GUARDRAIL.
- POST SPACING SHALL BE 6'-3" C. TO C., UNLESS OTHERWISE NOTED.
- TYPE 12 ANCHORAGES SHOULD BE TERMINATED ON SLOPES 10:1 OR FLATTER. WHERE NORMAL SLOPES STEEPER, A 10:1 OR FLATTER SLOPE SHOULD BE CONSTRUCTED AT LOCATIONS WHERE TYPE 12 ANCHOR FLARES BACK OF SHOULDER.
- GUARDRAIL SHALL NOT BE ERECTED ON SLOPES WHICH ARE STEEPER THAN 10:1, EXCEPT FOR THE PORTION OF PRECURVED (SHOP CURVED) SECTION THAT EXTENDS BACK OF THE SHOULDER AS SHOWN IN DETAIL "A" WHICH IS ERECTED ON NORMAL SLOPES OR EXCEPT WHERE SHOWN OTHERWISE IN THE PLANS.
- PAY LENGTH SHALL BE MEASURED ALONG FACE OF GUARDRAIL.
- W. BEAM GUARDRAIL WILL HAVE A CONSTANT TOP OF RAIL HT. OF 2'-3" THRU OUT INSTALLATION EXCEPT WHERE A PORTION OF THE PRECURVED SECTION SHOWN IN DETAIL "A" EXTENDS BACK OF THE GRADED SHOULDER.
- GUARDRAIL WILL EXTEND PAST HAZARD ON BOTH THE APPROACH & TRAILING ENDS TO PREVENT VEHICLE PENETRATION BEHIND THE RAIL INTO THE HAZARDOUS AREA. THE TYPICAL LENGTHS OF ADVANCEMENT SHOWN, MAY BE INCREASED OR DECREASED WHEN SHOWN IN THE PLANS, OR WHERE DIRECTED BY THE ENGINEER BECAUSE OF SPEED DESIGN, ROADSIDE GEOMETRY, SIZE OF HAZARD, OR OTHER CONDITIONS. IF FURTHER INFORMATION IS DESIRED, SEE GA. D.O.T. "GUIDELINES FOR DETERMINING GUARDRAIL NEED, LOCATION AND STANDARDS" OR AASHTO "ROADSIDE DESIGN GUIDE".

SPECIAL NOTE:
LOCATION AND QUANTITIES GIVEN IN THE PLANS FOR GUARDRAIL AND ANCHORAGES ARE ESTIMATES MADE FROM OFFICE COMPUTATIONS. A FINAL DETERMINATION AS TO LOCATIONS AND QUANTITIES OF GUARDRAIL AND ANCHORAGES WILL BE MADE BY THE ENGINEER OR A REPRESENTATIVE FROM THE OFFICE OF TRAFFIC OPERATIONS AFTER CONSTRUCTION OF ROADWAY.

*OR APPROVED ALTERNATE, MEETING NCHRP 350 REQUIREMENTS

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

STANDARD

GUARDRAIL LOCATION DETAILS FOR UNDIVIDED HIGHWAYS AND ROADS (WITH SHOULDERS ADJACENT TO ROADWAY)

SCALE AS SHOWN

REV. & REDR. DECEMBER, 1980

REV.	DATE	BY	REVISION
10-2-97	12-15-94	R.M.U.	CHG. TP. 9 TO TP. 11
4-23-90	4-23-90	R.M.U.	REV. DET. NARROW BR.
6-2-86	6-2-86	R.M.U.	ADD. ADDL. SEC. F-F
11-9-84	11-9-84	R.M.U.	ADD. "S" CHART
4-19-84	4-19-84	R.M.U.	SHOULDER WIDTHS
3-31-82	3-31-82	R.M.U.	ADD. DET. MULTILANE
		R.M.U.	ADD. DET. NARROW BR.

DES. R.M.U.
TRA. G.M.E.
CHK. R.K.C.

(SUBMITTED) *Harold E. Hardy*
STATE & AIRPORT DESIGN/ENGR
(APPROVED) *Thomas D. McEachern*
STATE HIGHWAY ENGINEER

NUMBER
4052